

FLORIDA ENGINEERING

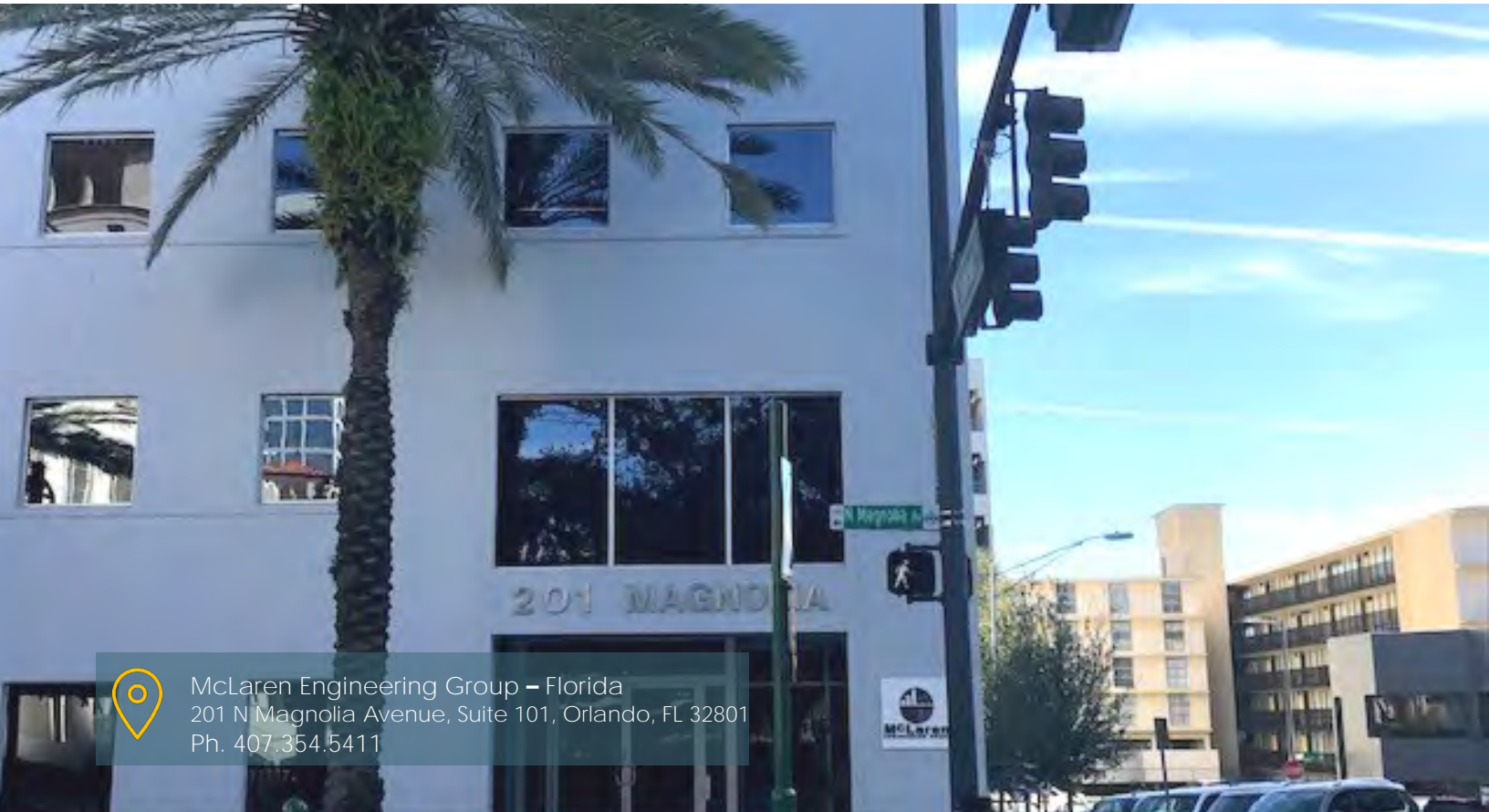


McLaren
ENGINEERING GROUP

St. Pete Pier Construction Engineering

About Us

McLaren Engineering Group is a leading full-service engineering firm renowned for its trusted, high quality and innovative approach to solving complex challenges. With industry experts in multiple technical disciplines, our team has provided customized solutions for over 15,000 projects through consultation, design, inspection and construction management. With over four decades of experience, a staff of 250+, and 11 offices worldwide, McLaren addresses every project's specific needs with technical excellence and creative innovation.



McLaren Engineering Group – Florida
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Core Technical Divisions

STRUCTURAL | CIVIL + SITE | MARINE + COASTAL | BRIDGE, HIGHWAY + RAIL
ENTERTAINMENT | GEOTECHNICAL | FACADE + BUILDING ENVELOPE
CONSTRUCTION ENGINEERING | FORENSICS | SURVEY + MAPPING



FULL SERVICE ENGINEERING

McLaren is a top engineering firm that provides custom, full-service building solutions throughout Orlando, the greater Florida area, and around the nation.

Our iconic work in infrastructure, transportation, marine, and real estate development supports both private and public projects of nearly every size, shape and scope. With a diverse portfolio, high-quality services and state-of-the-art capabilities, McLaren is a trusted leader in Florida's built environment.

We offer comprehensive engineering services and solutions that take any project from concept to completion with expert consultation, planning, permitting, design, construction support, inspection, and project management.

STRUCTURES
FACADE + ENVELOPE
CIVIL + SITE
GEOTECHNICAL ENGINEERING
MARINE + COASTAL
BRIDGE, HIGHWAY + RAIL
SIGNAGE + DISPLAYS
ENTERTAINMENT
SURVEYING + INSPECTION
CONSTRUCTION ENGINEERING
FORENSIC INVESTIGATIONS



Banyan Cove Senior Housing, DeLand



City of Orlando On-Call
Structural Engineering



John H. Jackson
Community Center
Facility Upgrades



The Flats at Tioga Town
Center Mixed-Use Buildings

STRUCTURAL ENGINEERING

With a wide range of services spanning from concept to completion, McLaren's structural engineering group is built on a foundation of technical excellence, cutting-edge capabilities, pragmatic solutions, and a sensitivity for aesthetics.

Offering multidisciplinary consulting, analysis, design, project management, and construction phase support, our expert structural engineers enable clients to best meet all project goals while building more efficiently and cost-effectively.

Structural Services

- Consultation & Design Support
- New Facility Construction
- Retrofits & Tenant Improvements
- Structured Parking Development
- Renovations, Additions & Restoration
- Building Envelope & Façade Engineering
- Structural Analysis & Inspections



Orlando Airport Airside Glass Façade
Peer Review

FACADE + ENVELOPE ENGINEERING

McLaren's facade engineering services put focus on the entire building envelope – the largest, most important factor in the technical performance and overall aesthetic of any structure.

Built on a foundation of construction engineering knowledge and structural expertise, our firm uniquely understands the interdependence of envelope elements throughout the project life-cycle. This custom approach helps our facade and envelope engineers to best improve constructability, maximize energy efficiency, strengthen security and enhance architectural vision.

Envelope Services

Envelope Consultation

Delegated Design

Glass & Glazing

Metal Panels & Specialty Structures

Stone & Brick

Inspection, Investigation &
Remediation



Camden Lake Eola
Apartments, Orlando



Zaha Hadid Building, NYC



Primera Towers Façade
Renovation, Lake Mary



Support Framing for Temporary Shoring,
St. Pete Pier



Rigging Solutions



Construction Sequencing



Crane Engineering

CONSTRUCTION ENGINEERING

From large infrastructure projects to buildings to specialty structures, our engineers can best determine optimal and cost-effective means and methods of design, planning, construction, and project management.

Our expert staff provide a diverse line of custom services including crane plans, permitting, rigging solutions, designs of temporary supports, bracing, and construction sequencing for both new and renovation projects. Our company also provides conventional design of steel structures and connections in addition to providing specialty structural engineering services (SSE) for delegated design elements.

Construction Services

Connection Design

Miscellaneous Metals

Support of Excavation (SOE)

Demo/Erection Sequencing

Cranes Plans

Rigging Solutions

Structural Lifting

Temporary Shoring

Jacking



Tortuga Music Festival 2014-2015,
Ft. Lauderdale

ENTERTAINMENT ENGINEERING

With a reputation for visionary entertainment engineering and design, McLaren offers a unique blend of imaginative artistry and cutting-edge technical capabilities. For over 40 years, our firm has been leading the entertainment industry with expert structural engineers, mechanical engineers and entertainment specialists.

We have helped create some of the best productions, events, concerts, displays, staging and entertainment facilities worldwide. Working with the biggest names in the business, our iconic work has revolutionized the audience experience with never-before-seen feats of engineering.

Entertainment Services

Live Entertainment Engineering

Entertainment Facility Structural
Engineering

Rigging, Staging, & Show Action
Machinery

Architectural Theming

Theme Park Engineering

Signage & Displays



St. Petersburg Coliseum
Stage Grid



Confidential Theme Park
Engineering, Orlando



Dr. Phillips PAC Performance
Platforms, Orlando



LIRR Post Avenue Bridge Replacement, NY



Confidential Pedestrian Bridge, Orlando



Diverging Diamond Intersection, MD



Design-Build Rail to Trail Conversion, NY

BRIDGE + ROADWAY ENGINEERING

McLaren's Bridge/Roadway Division has engineered bridges and roadways of all shapes, scopes and sizes nationwide. Our team is routinely called upon to complete design builds, specialty inspections, assessments and investigations.

We are known throughout the industry for our innovative designs of bridges and roadway structures; as well as providing bridge condition and roadway structure assessments, inspection and maintenance; and rehabilitative designs for bridges, culverts, retaining walls and overhead sign structures.

Bridge + Roadway Services

Design-Build

Pedestrian Bridges

Truss, Arch, Beam, Cantilever & Suspension Bridges

Repair & Rehabilitation Design

Seismic Evaluation & Retrofit Design

Structural Evaluation

Sound Barriers

Load Rating

Inspections & Studies

Safety Inspection



Inmar Headquarters, NC
Historic Adaptive Reuse Renovation

GEOTECHNICAL ENGINEERING

McLaren's Geotechnical Engineering team specializes in analyzing the behavior of earthen materials and how they interact with man-made elements such as foundations, flatwork and pipelines. Our geotechnical engineers use principles of soil mechanics and rock mechanics to investigate subsurface conditions and materials, determine the relevant physical/mechanical and chemical properties of these materials, evaluate stability of natural slopes and man-made soil deposits, assess risks posed by site conditions, design earthworks and structure foundations and monitor site conditions, earthwork and foundation construction.

Geotechnical Services

Environmental & Soils Analysis

Foundation Engineering

Site Planning & Development

Roadway Engineering

Above & Underground
Utilities Support

Permit Acquisition

Consultation, Design &
Investigation Support



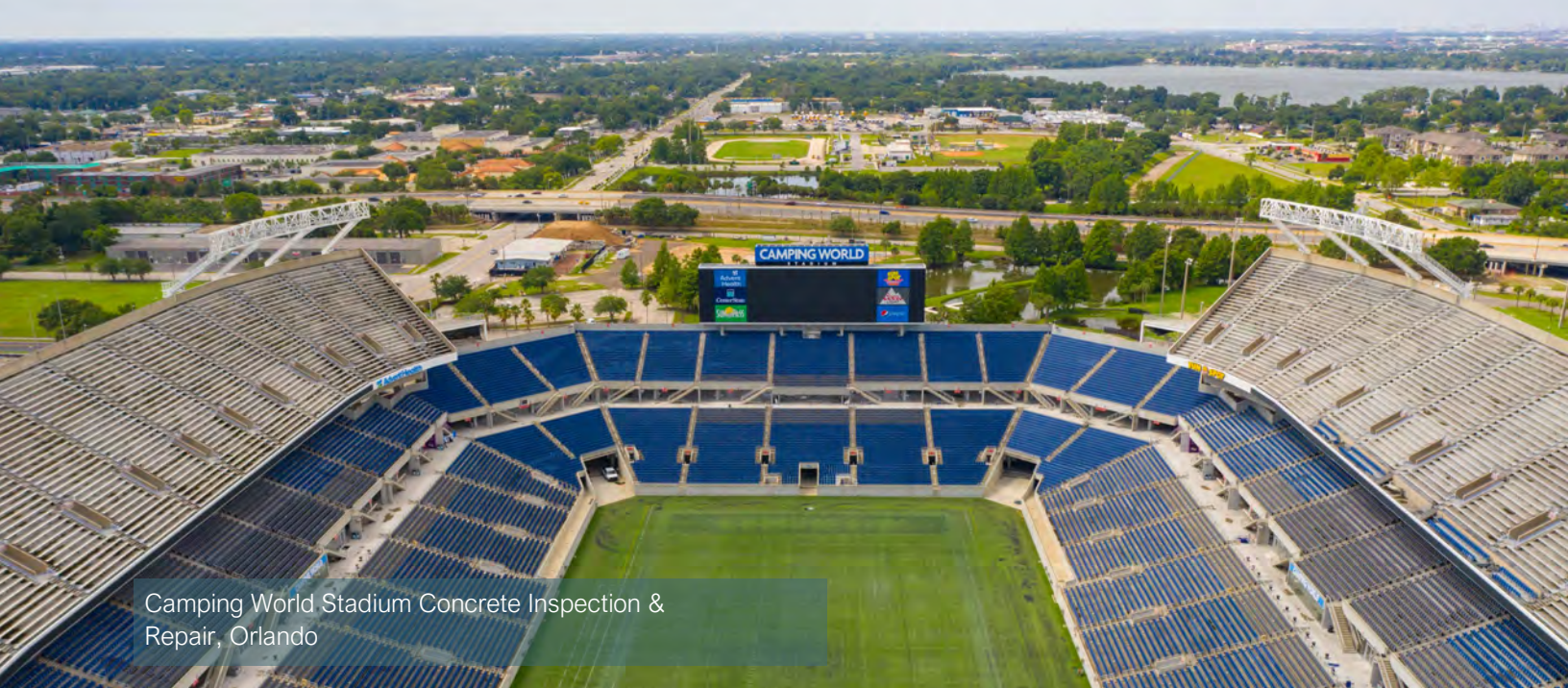
Ground Improvements



Pile Testing



Foundation Engineering



Camping World Stadium Concrete Inspection & Repair, Orlando

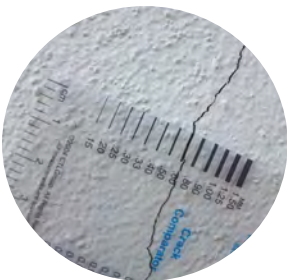
FORENSIC INVESTIGATION

Founded on our diverse multi-discipline technical engineering capabilities, McLaren's forensic experts are renowned for investigating, analyzing, simulating and presenting the evidence for some of the nation's most well-known collapses, failures, accidents, disputes and deficiencies.

Our team is focused on investigating the cause of an incident, analyzing who/what is responsible and identifying what can be done to mitigate reoccurrence. McLaren offers full litigation support, offering high tech investigation capabilities to develop detailed analyses, narrative reports, demonstrative evidence and expert witness testimony.

Forensic Services

- Investigative Engineering
- Litigation Support
- Narrative Reports
- Demonstrative Evidence
- Expert Witness Testimony
- Accident Reconstruction
- In-House Graphic Modeling
- Investigation and Analysis
- Forensic Metallurgy
- Condition Surveys
- State-of-the-Art Geomatic Investigation



College Park Community Center Condition Evaluation, Orlando



Boardwalk Super Grid Collapse



I-40 Bridge Collapse Accident Reenactment



NYC Ferry System

MARINE ENGINEERING

The design of marine facilities requires effective integration of coastal, structural and geotechnical engineering principles. This combination of skills allows us to offer in-depth waterfront engineering services spanning inspection, design and rehabilitation of marine facilities, ports, terminals, piers, bulkheads, and landings in any environment.

We provide industry leading solutions for any type of project – the design-build of a new facility, renovation and expansion of an existing site, creation of living shorelines, or an underwater inspection and rehabilitation.

Marine Services

Waterfront Consultation & Design

Above & Underwater Inspections

Bulkhead, Dock & Wharf Design

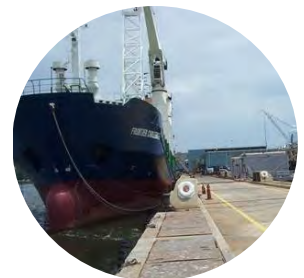
Berthing/Mooring Analysis

Regulatory Permitting

Flood Risk Management

Living Shorelines

Coastal Analysis and Regulatory
Coordination



Atlantic Pier
Reconstruction,
Jacksonville



Dive Inspection Services,
Dominican Republic



National Aquarium
Floating Wetlands, MD



All Elite Wrestling LED Wall, Jacksonville



University of Miami
Murals & Lighting



Monopole Signage



LED Sign, Times Square

SIGNAGE ENGINEERING

From roadway and ground mounted signage to architectural and LED displays, we provide clients with cutting-edge design, engineering, and expertise.

Our team offers structural engineering and construction support for new sign design, installation, upgrade, rehabilitation, and removal for both public and private clients.

Signage Types

- Roadway Signage
- Billboards + Overpass Signage
- Ground Mounted Signage
- Wayfinding
- Video Signage & Billboards
- Storefront & Architectural Signage
- Video Walls
- Custom Exhibits & Displays
- Temporary Structures
- Mechanized Displays



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